**Contents**

VOL. 68 NO. 1 JANUARY 1988

Desalination — the distant future (Lecture presented at the 3rd World congress on desalination and water reuse, Cannes, September 1987)
by R.S. Silver (Glasgow) ..... 1
Flow patterns in radial flow hollow fiber reverse osmosis systems
by W.N. Gill, M.R. Matsumoto, A.L. Gill and Yong-Taek Lee
(Buffalo, NY) ..... 11
The significance of colour changes in some reverse osmosis permeators
by N.R.G. Walton (Oxford) ..... 29
Parametric evaluation of flux decline during ultrafiltration of protein solutions
by A.G. Abulnour, H.A. Talaat, M.H. Sorour and S.R. Tewfik (Cairo) ..... 35
An investigation of the modified fouling index as a test for plugging potential of pretreated seawater
by D.R. van der Vaart and E.P. Stahel (Raleigh, NC) ..... 45
Vapour compression distillation using waste heat absorption systems
by S.E. Aly (Jeddah) ..... 57
Osmotic pressure of dextran T10 solutions
by W. Push (Frankfurt) ..... 69
Letter to the Editor
by M. Reali (Milano) and S. Loeb (Beer-Sheva) ..... 75
Terminology for pressure-driven membrane operations
by V. Gekas (Lund) ..... 77

VOL. 68 NOS. 2,3 MARCH 1988

Preface

Characterization of clean and fouled ultrafiltration membranes
by J.H. Hanemaaijer, T. Robbertsen, Th. van den Boomgaard, C. Olieman, P. Both and D.G. Schmidt (Ede) ..... 93
New composite charged reverse osmosis membrane
by K. Ikeda, T. Nakano, H. Ito, T. Kubota and S. Yamamoto
(Osaka) ..... 109
Acidic wastewater treatment by Donnan dialysis involving tubular anion-exchange membranes
by G. Wiśniewska ad T. Winnicki (Warsaw) ..... 121

**Contents**

VOL. 68 NO. 1 JANUARY 1988

Desalination — the distant future (Lecture presented at the 3rd World congress on desalination and water reuse, Cannes, September 1987)
by R.S. Silver (Glasgow) ..... 1
Flow patterns in radial flow hollow fiber reverse osmosis systems
by W.N. Gill, M.R. Matsumoto, A.L. Gill and Yong-Taek Lee
(Buffalo, NY) ..... 11
The significance of colour changes in some reverse osmosis permeators
by N.R.G. Walton (Oxford) ..... 29
Parametric evaluation of flux decline during ultrafiltration of protein solutions
by A.G. Abulnour, H.A. Talaat, M.H. Sorour and S.R. Tewfik (Cairo) ..... 35
An investigation of the modified fouling index as a test for plugging potential of pretreated seawater
by D.R. van der Vaart and E.P. Stahel (Raleigh, NC) ..... 45
Vapour compression distillation using waste heat absorption systems
by S.E. Aly (Jeddah) ..... 57
Osmotic pressure of dextran T10 solutions
by W. Push (Frankfurt) ..... 69
Letter to the Editor
by M. Reali (Milano) and S. Loeb (Beer-Sheva) ..... 75
Terminology for pressure-driven membrane operations
by V. Gekas (Lund) ..... 77

VOL. 68 NOS. 2,3 MARCH 1988

Preface

Characterization of clean and fouled ultrafiltration membranes
by J.H. Hanemaaijer, T. Robbertsen, Th. van den Boomgaard, C. Olieman, P. Both and D.G. Schmidt (Ede) ..... 93
New composite charged reverse osmosis membrane
by K. Ikeda, T. Nakano, H. Ito, T. Kubota and S. Yamamoto
(Osaka) ..... 109
Acidic wastewater treatment by Donnan dialysis involving tubular anion-exchange membranes
by G. Wiśniewska ad T. Winnicki (Warsaw) ..... 121

Transport-reaction through ion-exchange membranes: modelling of ligand transport by a complexing counter-ion and experiments with ammine and polyborate ions
by D. Langevin, M. Metayer, M. Labbe, B. Pollet, M. Hankaoui, E. Selegny (Mont-Saint-Aignan) and S. Roudesli (Monastir) ..... 131
Aquatech membrane technology for recovery of acid/base values from salt streams
by K.N. Mani, F.P. Chlanda and C.H. Byszewski (Mt. Bethel, NJ) ..... 149
High performance ultrafiltration membranes cast from LiCl doped solutions
by A. Bottino, G. Capannelli, S. Munari and A. Turturro (Genoa) ..... 167
Substitution of the final clarifier by membrane filtration within the activated sludge process with increased pressure; initial findings
by Kh. Krauth and K.F. Staab (Stuttgart) ..... 179
Separation techniques with supported liquid membranes
by G. Schulz (Wuppertal) ..... 191
Nitrate removal by electrodialysis for brewing water
by K. Kneifel, G. Lührs (Geesthacht) and H. Wagner (Goslar) ..... 203
Annealing effect of cellulose acetate membranes on ethanol and glucose reverse osmosis separation
by M. Norberta de Pinho (Lisboa) ..... 211
Characterization of a new reverse osmosis composite membrane for industrial application
by A.J. Naaktgeboren (Dedemsvaart), G.J. Snijders and J. Gons (Gorredijk) ..... 223
Microfiltration of protein solutions: effect of fouling on rejection
by P. Heinemann, J.A. Howell (Bath) and R.A. Bryant (Swansea) ..... 243
Characterization of electrodialysis membranes by chronopotentiometry
by R. Audinos and G. Pichelin (Toulouse) ..... 251
Industrial applications of the aqualyzer electrodialysis process using fine thickness cells
by A. Bonnin (Buc) and F. Linnhoff (Staufen) ..... 265
Development of bipolar membranes
by B. Bauer, F.J. Gerner and H. Strathmann (Stuttgart) ..... 279
Forthcoming events 1988 ..... 293
Author Index ..... 299
Contents of Volume 68 ..... 300
Errata ..... 302